Wednesday, 5/23/2007 4:00:37 PM

Kim Johnston User: **Process Sheet** : 350 SKIDTUBE ASSEMBLY LH Customer : CU-DAR001 Dart Helicopters Services **Drawing Name** Job Number : 32527 **Estimate Number** : 10266 : D350636013 : NA Part Number P.O. Number 07.05.24 S.O. No. : NA · D2750 UNDER REVIEW This Issue : 5/23/2007 **Drawing Number** : N/A Prsht Rev. Project Number : LANDING GEAR First Issue **Drawing Revision** : 32526 Material Previous Run Qty: : 6/20/2007 Each 1 Um: **Due Date** Written By Checked & Approved By 02.09.25 Rearranged procedure steps KJ Comment est rev I 06.03.30 Per rev. D dwg EC **Additional Product** Job Number: Machine Or Operation: Description: Seq. #: 1.0 √DC DOCUMENT CONTROL

Comment: DOCUMENT CONTROL

Photocopy blue file and type labels per PPP D350-636-013 CHG 002

Comment: Qty.: 1.0000 Each(s)/Unit 1.0000 Each(s) Total:

Pick:

Qty Part Number

D2600-3-Bent Extrusion (Bent)

Description

030666

Extrusion Bent

D2744



Comment: Qtv.:

1.0000 Each(s)/Unit

Total:

1.0000 Each(s)

0706-07

4.0

2.0

LANDING GEAR

LANDING GEAR RESOURCE 1





Comment: LANDING GEAR RESOURCE 1

1- Mark cut line on aft end of D2600-3-Bent using Jig DT 8150. Cut to length as per Dwg D2750. Deburr end

2-Drill pilot holes as per Dwg D2750 sheet 3 (D2750-1 details). Drill using drill Jig DT8150 & DT8864 drillingholes labelled "B" only.

3- Mark fwd end for cutting using Drill Jig DT 8150 & DT8864 and cut as per dwg D2750.

7-6-5

W/O:		WORK ORDER CHANG	ES				
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No		PAR #: Fault Category:	NCR: Yes	No DQ	A:	Date: _	
			QA:	N/C Close	d:	Date:	

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		Description of NC		Corrective Action Section B		Verification	Approval	Annroyal
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	Approval QC Inspector
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Wednesday, 5/23/2007 4:00:37 PM Date: Kim Johnston User: **Process Sheet** Drawing Name: 350 SKIDTUBE ASSEMBLY LH Customer: CU-DAR001 Dart Helicopters Services Part Number: D350636013 Job Number: 32527 Job Number: Description: Seq. #: Machine Or Operation: 4-Drill pilot holes for Detail B using DT8330 5-Open float holes to .375" 6-Drill pilot holes for wearplates as per Dwg D2750 using DT8108 and open to 0.250" ***Make sure that wearplate holes are on bottom of tube****** 7-Open up holes of Detail A to 0.250" (total of 2 holes per side) 8- Countersink all fwd wearshoe holes (total of 19 holes per side) DO NOT C'SINK THE LAST AFT HOLES (total of 2 per side for blade fitting) as per dwg D2750. 9-Countersink Detail A as per dwg D2750. 10-Open up holes for Detail B, "hole size W" and blade fitting location holes to 0.500" (total of 9 holes per side) as per dwg D2750. 11-Weld D2744 Cap as per Dwg D2750 and QSI 004 Fill grooves in bend left from bending as per QSI 004 Aluminum Rod M/0242/ BE 07-06-07 12-Grind welds flush as per Dwg D2750 VISUAL WELDING INSPECTION 5.0 QC9 07-06-07 Comment: VISUAL WELDING INSPECTION INSPECT WORK TO CURRENT STEP QC5 6.0 Comment: INSPECT WORK TO CURRENT STEP 7.0 m 67-06-076 Comment: HAND FINISHING RESOURCE #1 Chemical Conversion Coat as per QSI 005 4.1 INSPECT POWDER COAT/CHEMICAL CONVERSION QC3 8.0

Comment: INSPECT POWDER COAT/CHEMICAL CONVERSION

16 mg

Dart Ae	rospace	Ltd				•				
W/O:			WC	ORK ORDER CH	ANGES		 			
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			Officially	Cillel Eng		Date				

Date: Wednesday, 5/23/2007 4:00:37 PM Kim Johnston User: **Process Sheet** Drawing Name: 350 SKIDTUBE ASSEMBLY LH Customer: CU-DAR001 Dart Helicopters Services Job Number: 32527 Part Number: D350636013 Job Number: \mathcal{C}_{\cdot} Description: Seq. #: Machine Or Operation: 350 I Beam 9.0 D2739 1.0000 Each(s) 1.0000 Each(s)/Unit Comment: Qty.: 7-6-14 10.0 Comment: Qty.: 4.0000 Each(s) Total: 07-06-20 11.0 Comment: Qty.: 4.0000 Each(s) Total: 07.06.20 D2743 12.0 Comment: Qty.: Total: 8.0000 Each(s) 13.0 Comment: LANDING GEAR RESOURCE 1 1-Open up holes "size X" (total of 4 holes per side) as per dwg D2750 2-Open up holes of Detail V & Detail C to 0.625" (total of 8 holes per side) as per dwg D2750. 3-Chamfer holes of Detail V, Detail C, hole size "W" and "X" per dwg D2750 (welding instructions on sheet 5) 4-Deburr and blow out all chips from inside of tube 5-Bond web D2739 in place as per QSI 015

A/R Sikaflex-291 batch: 17103 961 6- Weld spacers D3490-1, D3490-5 and D2743 as per dwg D2750 & QSI004

1

W/O:		WORK ORDER CHANGES					
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NCR: WORK ORDER NON-CONFORMANCE (NCR)								
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Wednesday, 5/23/2007 4:00:37 PM Date: Kim Johnston **Process Sheet** User: Drawing Name: 350 SKIDTUBE ASSEMBLY LH Customer: CU-DAR001 Dart Helicopters Services Part Number: D350636013 Job Number: 32527 Job Number: Description: Seq. #: Machine Or Operation: (welding instructions on sheet 5) ructions on sheet 5)
Aluminum Rod batch: M 104305 & BE 07-06-20 7-Grind welds flush as per Dwg D2750 / ~ 'o7-66-31 () 8-Spot face ground handling holes section J-J (total of 4 places per side) as per dwg D2750 Proj-X2-310 Pm 07-06-21(14.0 QC9 WELDING INSPECTION Comment: VISUAL INSPECT WORK TO CURRENT STEP QC5 15.0 Comment: INSPECT WORK TO CURRENT STEP POWDER COATING M 105068 Powder Coat Gloss White (Ref. 4:3.5.1) as per Dart QSI 005 4.3 17.0 Comment: INSPECT POWDER COAT/CHEMICAL CONVERSION Inspect for foreign object per QSI 024 **INSERT** NAS1330S3KB166 18.0 Comment: Qty.: Total: 42.0000 Each(s) **INSERT** 19.0 Comment: HAND FINISHING RESOURCE #1 1-Install inserts as per dwg D2750 07-08.64

W/O:	•	WORK ORDER C	HANGES				
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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QA: N/C Closed: ____ Date: ____

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Wednesday, 5/23/2007 4:00:37 PM Date: Kim Johnston User: **Process Sheet** Drawing Name: 350 SKIDTUBE ASSEMBLY LH Customer: CU-DAR001 Dart Helicopters Services Job Number: 32527 Part Number: D350636013 Job Number: Description: Seq. #: Machine Or Operation: INSPECT WORK TO CURRENT STEP 20.0 QC5 Comment: INSPECT INSERTS Wearpad D26483 21.0 5.0000 Each(s) Total: Comment: Qty.: 5.0000 Each(s)/Unit Wearpag Batch: D265613 Wearplate 22.0 Comment: Qty.: Total: 1.0000 Each(s) Wearplate Batch: D265635 Wearplate 23.0 Comment: Qty.: 1,0000 Each(s) 1.0000 Each(s)/Unit Total: Wearplate Batch: 24.0 D2746 Wearshoe 1.0000 Each(s)/Unit Total: 1.0000 Each(s) Comment: Qty.: Wearplate B30141 D2745 25.0 Bushing Total: 8.0000 Each(s) Comment: Qty.: Bushing 1330557 BLADE FITTING ASSEMBL 26.0 D3488041 Comment: Qty.: 1.0000 Each(s) 1.0000 Each(s)/Unit Total: Blade Fitting, LH

Dart Ae	rospace Li	ta							
W/O:			WORK ORDER C	HANGES		·····			
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DATE	STEP	Description of NC	Corrective Action		Sign &	Verific		Approval	Approval

Corrective Action Section B							
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Wednesday, 5/23/2007 4:00:38 PM Date: User: Kim Johnston **Process Sheet** Drawing Name: 350 SKIDTUBE ASSEMBLY LH Customer: CU-DAR001 Dart Helicopters Services Job Number: 32527 Part Number: D350636013 Job Number: Description: Seq. #: Machine Or Operation: PLUG ASSEMBLY 27.0 D3492041 8.0000 Each(s) Total: Comment: Qty.: PLUG ASSEMBLY 1332598 Batch: D3492045 PLUG ASSEMBLY 28.0 Comment: Qty.: 8.0000 Each(s) Total: PLUG ASSEMBLY Batch: 1332599 Batch: 29.0 AN3C5A Total: 38.0000 Each(s) Comment: Qty.: 38.0000 Each(s)/Unit Bolt Batch: M104 118 **BOLT** AN3C6A 30.0 Comment: Qty.: 4.0000 Each(s)/Unit Total: 4.0000 Each(s) Bolt Batch: M103693 BOLT 31.0 AN3C7A Comment: Qty.: Total: 4.0000 Each(s) 4.0000 Each(s)/Unit **BOLT** Batch: BOLT 32.0 AN6C44A Comment: Qty.: 4.0000 Each(s)/Unit Total: 4.0000 Each(s) **BOLT** Batch: M103961 33.0 AN8C35A Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s) **BOLT** Batch: M 102180

Form: rorocess

Page 6

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STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Wednesday, 5/23/2007 4:00:38 PM Date: User: Kim Johnston **Process Sheet** Drawing Name: 350 SKIDTUBE ASSEMBLY LH Customer: CU-DAR001 Dart Helicopters Services Part Number: D350636013 Job Number: 32527 Job Number: Description: Seq. #: Machine Or Operation: 34.0 AN960C10L 46.0000 Each(s) 46.0000 Each(s)/Unit Total: Comment: Qty.: washer Batch: M 105057 WASHER 35.0 Comment: Qty.: 2.0000 Each(s) 2.0000 Each(s)/Unit Total: WASHER Batch: 1104093 NUT 36.0 Comment: Qty.: 4.0000 Each(s)/Unit Total: 4.0000 Each(s) gs/ Batch: M103693 NUT 37.0 Comment: Qty.: 1.0000 Each(s)/Unit Total: 1.0000 Each(s) NUT 刈 Batch: M103492 WASHER 38.0 Comment: Qty.: Total: 46.0000 Each(s) 46.0000 Each(s)/Unit **WASHER** M104603 Batch:_ WASHER 39.0 Comment: Qty.: 10.0000 Each(s)/Unit Total: 10.0000 Each(s) WASHER Batch: M104260 HAND FINISHING RESOURCE #1 40.0 Comment: HAND FINISHING RESOURCE #1 1-Spray inside of tube with "LPS-3" batch: M105 085 Inspect for foreigh obects as Dart QSI 024

Page 7

Dail Ae	rospace L	ta							
W/O:			WORK ORDER	CHANGES					
DATE	STEP	PRO	CEDURE CHANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
									
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Wednesday, 5/23/2007 4:00:38 PM Date: User: Kim Johnston **Process Sheet** Drawing Name: 350 SKIDTUBE ASSEMBLY LH Customer: CU-DAR001 Dart Helicopters Services Part Number: D350636013 Job Number: 32527 Job Number: Description: Seq. #: Machine Or Operation: 2-Install blade fitting D3488-041, wearshoes and ground handling hardware as per dwg D2750 SIKA FLEX 241 BATCH: M 104989 EXP DATE: 08.0 batch: M104 251 3-Coat all exposed fasteners with "LPS Procyon" 41.0 QC5 Comment: INSPECT WORK TO CURRENT STEP PACKAGING RESOURCE #1 42.0 Comment: PACKAGING RESOURCE #1 Pick Packing Kit 43.0 Blade Comment: Qty.: 1.0000 Each(s)/Unit 1.0000 Each(s) Blade <u> 5305</u>56 44.0 AN960C816L WASHER Total: 2.0000 Each(s) omment: Qty.: NUT 45.0 Comment: Qty.: 2.0000 Each(s)/Unit Total: 2.0000 Each(s) Nut 1104625 1 Batch: -BOLT AN8C21A 46.0 Comment: Qty.: 2.0000 Each(s) Bolt 1104117

W/O:		WORK ORDER CHANGES							
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	WORK ORDER NON-CONFORMANCE (NCR)									
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Wednesday, 5/23/2007 4:00:38 PM Date: Kim Johnston User: **Process Sheet** Drawing Name: 350 SKIDTUBE ASSEMBLY LH Customer: CU-DAR001 Dart Helicopters Services Part Number: D350636013 Job Number: 32527 Job Number: Description: Seq. #: Machine Or Operation: WASHER 47.0 NAS1515H8L Comment: Qty.: 2.0000 Each(s) Total: WASHER Batch: ___ WASHER D34931 48.0 2.0000 Each(s) Comment: Qty.: WASHER, INSPECT 100% KITS FOR COMPLETENE 49.0 100% KITS FOR COMPLETENESS PACKAGING RESOUR 50.0 Comment: PACKAGING RESOURCE #1 Package as per PPP D350-636-013 51.0 QC21 Comment: FINAL INSPECTION/W/O RELEASE Job Completion

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DESIG	P#	DRAWN BY	DART AEROSPACE USA, INC.
CHECK	(ED #	APPROVED	DRAWING NO. REV. D D2750 SHEET 1 OF 5
DATE		***************************************	TITLE SCALE
06.0	1.05		350 SKIDTUBE ASSEMBLY NTS
Α		98.04.16	NEW ISSUE
В		98.09.01	CHANGE MS24694-S293 TO AN8-16A
С		98.11.18	ADD D2750-3/D2750-4

DELEASE 6.02.07 # UNDER REVIEW OK

INCORPORATE D2738 AND D2740 ADD HOLES AND SPACERS FOR D 06.01.05 APICAL FLOATS INCORPORATE DEO 9133/9157

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Qty -041	Qty -042	Qty -043	Qty -044	Part Number	Description
Х				D2750-041	SKIDTUBE ASSEMBLY, LH
	X			D2750-042	SKIDTUBE ASSEMBLY, RH
		Х		D2750-043	SKIDTUBE ASSEMBLY, LH
			X	D2750-044	SKIDTUBE ASSEMBLY, RH
5	5	5	5	D2648-3	WEARPAD
1	1	1	1	D2656-13	WEARSHOE
1	1	1	1	D2656-35	WEARSHOE
1	1	1	1	D2746	WEARSHOE
1	1	1	1	D2739	WEB
1	1	1	1	D2741	BLADE
8	8	8	8	D2743	SPACER
1	1	1	1	D2744	CAP
8	8	8	8	D2745	BUSHING
1	İ			D2750-1	SKIDTUBE WELDMENT, LH
	1			D2750-2	SKIDTUBE WELDMENT, RH
		1		D2750-3	SKIDTUBE WELDMENT, LH
			1	D2750-4	SKIDTUBE WELDMENT, RH
1	-	1		D3488-041	BLADE FITTING, LH
	1		1	D3488-042	BLADE FITTING, RH
4	4	4	4	D3490-1	SPACER
4	4		-	D3490-3	SPACER
		4	4	D3490-5	SPACER
8	8	8	8	D3492-041	PLUG ASSEMBLY
8	8			D3492-043	PLUG ASSEMBLY
		8	8	D3492-045	PLUG ASSEMBLY
38	38	38	38	AN3C5A	BOLT
4	4	4	4	AN3C6A	BOLT
4	4	4	4	AN3C7A	BOLT
4	4	4	4	AN6C44A	BOLT
2	2	2	2	AN8C21A	BOLT
1	1	1	1	AN8C35A	BOLT
46	46	46	46	AN960C10L	WASHER
4	4	4	4	AN960C816L	WASHER
4	4	4	4	MS21043-6	NUT
3	3	3	3	MS21083C8	NUT
42	42	42	42	NAS1330S3KB166	INSERT
46	46	46	46	NAS1515H3L	WASHER
12	12	12	12	NAS1515H8L	WASHER

SHOP COPY RETURN TO **ENGINEERING** INCONTROLLED COPY SUBJECT TO AMENDMENT

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DESIGN	PH	DRAWN BY	DART	AEROSPACE USA, INC.
CHECKED	#	APPROVED #	DRAWING NO. D2750	REV. D SHEET 2 OF 5
DATE			TITLE	SCALE
06.01.0	05		350 SKID	TUBE ASSEMBLY NTS

UNDER REVIEW OK CB wearplates



GENERAL NOTES:

- ALL DIMENSIONS ARE IN INCHES
- TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- MAKE FROM D2600-3 EXTRUSION (INITIAL LENGTH = 120.0).
- DAMAGE TOLERANCE ON BENDING:

THERE SHOULD BE NO VISIBLE WRINKLES IN THE BEND FROM THE GROUND TO A HEIGHT OF 12 INCHES ABOVE THE GROUND. NO GOUGING IS ACCEPTABLE IN THE FLAT PORTION OF THE TUBE. GOUGES UP TO 0.020 ARE ACCEPTABLE IN THE BENT PORTION OF THE TUBE. TUBE O.D. SHOULD BE 3.150 ± 0.010 IN THE FLAT PORTION OF THE TUBE. TUBE O.D. SHOULD BE 3.15 ± 0.030 IN THE BENT PORTION OF THE TUBE.

- ALL HOLES DRILLED ON CENTERLINES EXCEPT THOSE NOTED BY SECTIONS E-E, F-F, AND R-R.
- WELDING TO BE DONE PER DART QSI 004.
- FINAL CONFIGURATION SHOULD HAVE THE FOLLOWING MINIMUM MECHANICAL PROPERTIES:

MINIMUM YIELD TENSILE STRENGTH = 35 ksi MINIMUM ULTIMATE TENSILE STRENGTH = 38 ksi SHOP COPY RETURN TO ENGINEERING

FINISH: 8.

ACID ETCH, ALODINE ASSEMBLY PER DART QSI 005 4.1 PRIOR TO INSTANTA OLLED COPY D2739 WEB. WITHOUT NOTICE

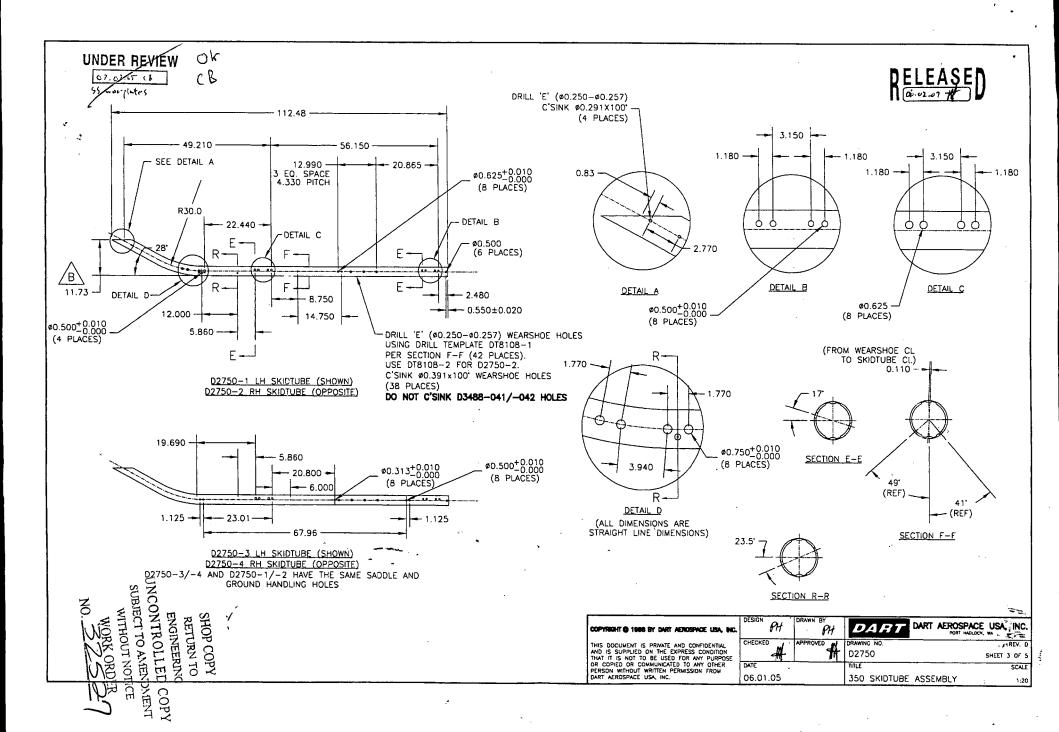
POWDER COAT WHITE (REF. 4.3.5.1) PER DART QSI 005 4.3

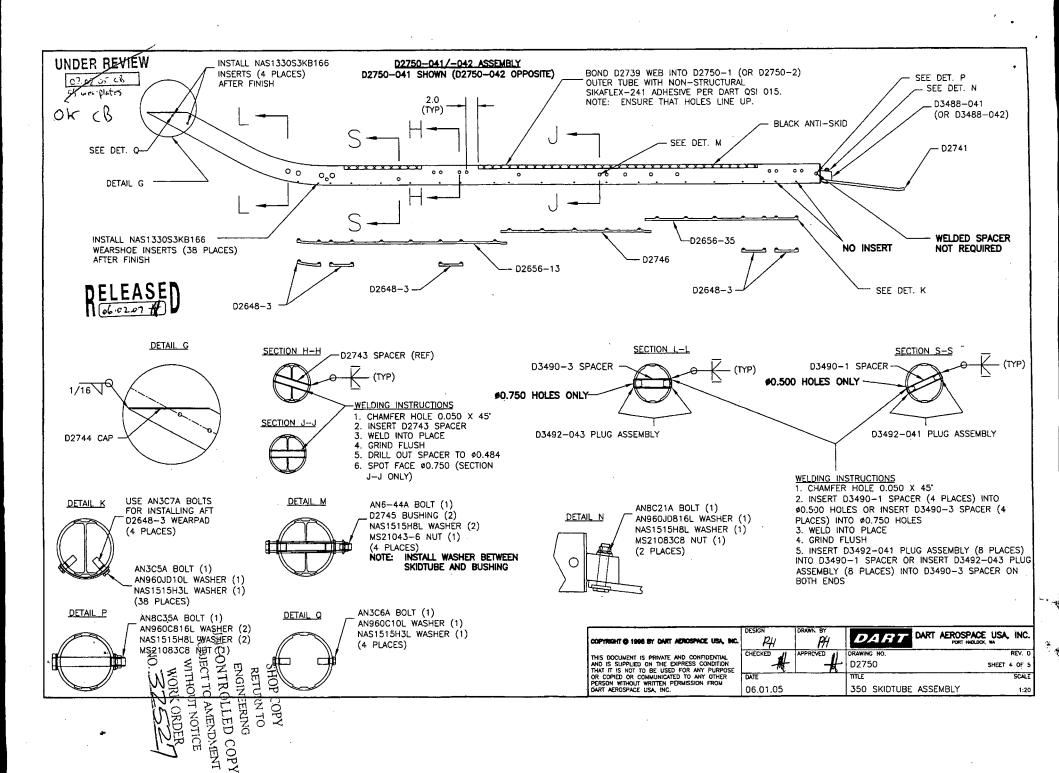
WORK ORDER BLACK ANTI-SKID PAINT AS INDICATED TO 1.0 ABOVE SKIDTUBE CENTER-LINE PER DART 005 4.4 (OPTIONAL).

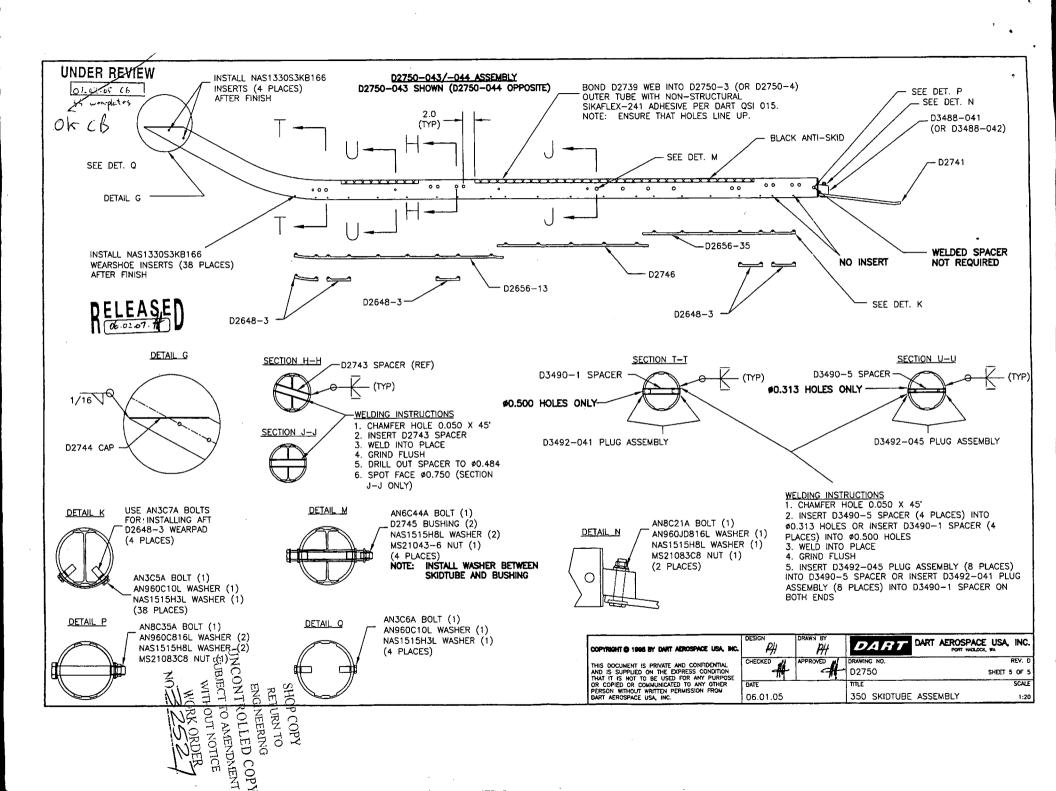
- INSTALL NAS1330S3KB166 INSERTS AFTER FINISH AS INDICATED IN D2750-1/-2/-3/-4 WELDING DETAIL ON PAGE 4 AND 5. DRILL 'E' SIZE HOLES (Ø0.250- Ø0.257) FOR WEARSHOE INSERTS. C'SINK Ø0.391 X 100° AND INSTALL INSERTS
- 10. D3488-041 (OR D3488-042) BLADE FITTING AND AN3-5A/AN3-7A WEARSHOE SCREWS TO BE INSTALLED USING SIKAFLEX-241 (OR EQUIVALENT) SEALANT.
- 11. SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES "LPS-3" AFTER FINISH AND AFTER INSTALLATION OF INSERTS. COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATING WITH MEK DEGREASER.
- 12. APPLY A LAYER OF SIKAFLEX -241/-291 ADHESIVE BETWEEN THE BOTTOM OF THE SKIDTUBE ASSEMBLY AND THE WEARPLATES

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NO.	113

AWS D17.1.2001 QUALIFICATION TEST RECORD

Name Bard	lay Elliott						
Part number and Job number 350636014 (83253)							
Part number and Jo	b number 5300	7001 (1000)					
	TEST WELI	OS REQUIRED					
BASE METAL	Min	WELDING PROG	jess jig				
Penetration Comple Current AC DC	ete[]Partial[]	Single Weld [1] Backing YES []	Double Weld				
	Position	Vertical Down	[] .Up []				
Shect Groove Tube Groove Shect Fillet Tube Fillet Crossbolt Spacer W	1G [] 2G [1G [] 2G [1F [] 2F []] 5 G []] 3F []] 4F []	4G [] 6G [] 4F [] 5F []				
	TEST I	RESULTS					
Visual Penetration	Pass [] Fail [] Pass [] Fail []	·					
Crossbolt Spacer	Pass [Fail []						
The above named inc	dividual is qualified in	accordance with A	WS D17.1.2001 to weld				
Date of Test Coupo	n 07/06/19	Qualifier	walund				